8:30-9:00  BREAKFAST

9:00-9:10  Welcome, Opening Remarks, & Introductions  
  Mrs. Gina Dickerson ’86, Chair, EADC

9:10-9:30  Dean’s Report  
  Dr. Valen Johnson, Dean, College of Science

9:30-10:00  Development Update  
  Mr. Randy Lunsford, Sr. Director Development, College of Science

10:00-10:30  EADC Survey Results & Future Format  
  Dr. Mark Zoran, Executive Associate Dean, College of Science  
  Mr. Randy Lunsford, Sr. Director Development, College of Science

10:30-10:45  BREAK

10:45-11:15  Biology SOAR  
  Dr. Mark Zoran, Executive Associate Dean, College of Science

11:15-12:00  Chemistry SOAR  
  Dr. Simon North, Professor & Department Head, College of Science

12:00-1:00  LUNCH

1:00-1:30  Science Now Campaign  
  Dr. Karen Wooley, Distinguished Professor, College of Science  
  Dr. Mark Zoran, Executive Associate Dean, College of Science

1:30-2:30  Breakout Sessions

2:30-3:00  Breakout Summary & Closing Remarks  
  Mrs. Gina Dickerson ’86, Chair, EADC

3:00  ADJOURN
College of Science Update

Valen E. Johnson

Dean

External Advisory and Development Council Meeting
• March 10, 2020 (Tuesday of Spring Break): College notified classes cancelled on March 16, 17, to resume on March 18.

• March 12, 2020 (Thursday of Spring Break): University moves all classes online for remainder of spring semester.

• March 18, 2020 (Wednesday after Spring Break): Faculty begin on-line instruction using Zoom for remainder of Spring Semester.

• May 29, 2020: President Young announces that campus will reopen for classes on August 19. Goal is to have 50% of classes offered in “hybrid format”

• August 19, 2020: Semester begins; 50% of CLSC classes offered in hybrid format.

• Fall 2020 Enrollments WSCH +3%, SCH +4%
COVID 19 Response

• Classroom occupancy decreased to 30% of maximum
• Social distancing enforced by color coding seats, by period
• Air flow increased (5-6 recirculations per hour), MERV 13 filters installed
• Plexiglass barriers provided for instructors
• Cameras, microphones and speakers installed
• Hand sanitizer stands placed at entrances and exits to buildings and larger classrooms and labs
• Masks required in all university buildings and in outdoor spaces when social distancing cannot be maintained
• Traffic flow patterns regulated in classroom buildings
COVID 19 Response in Spring

• Spring 2021 will (probably) look like Fall 2020
• In-person attendance problematic - students aren’t coming to available F2F Classes
• Increased focus on undergraduate research projects?
• Limited F2F only classes
FY2020 Research Highlights

• Faculty received 145 research awards totaling $42.6M in FY20 (up from 33.6M in FY19)

• Approximately 60% of TT/T faculty received a new award last year

• IDC expenditures increased to $8.8M, up from $8.1M in FY19
Research Activity within the College of Science

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>IDC Expenditures</th>
<th>Number of Awards</th>
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<td>2017</td>
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<td>2019</td>
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<td>2020</td>
<td>8,765,763</td>
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</table>

8% one-year increase
Academic Year Highlights

• Cyclotron Institute tested components of SpaceX Crew Dragon, successful splashdown in August
• UG Allison Baker and Emily Chapa named Beckman Scholars (2 of 2)
• UG Jonathan Lo named Astronaut Scholar (1 of 2)
• Cyclotron Institute’s Sherry Yennello awarded American Chemical Society Glenn T. Seaborg Award for nuclear chemistry.
• Marcetta Daresbourg awarded Sigma Xi’s William Proctor Prize for Scientific Achievement
Academic Year Highlights

• Cyclotron Institute’s Stephen Molitor and McKensie Le Fevre received Presidential Meritorious Staff Award
• BS in Neuroscience that already has 32 majors launched this fall
• Contemporary Issues in Science course launched
• 8 AggieTeach-Science interns help Aggie Homework Helpline
• 12 SLS program students graduate; nearly 100 student participants to date
Texas A&M Biology

• **Richard Gomer** named University Distinguished Professor; his company Promedior sold for $1.4B.

• **Heath Blackmon** received Maximizing Investigator’s Research Award (MIRA) from NIH.

• **Wayne Versaw** recognized as Open Source champion for saving Aggies $600,000 on textbooks.

• **Larry Griffing** received an NSF I-Corps grant to start a company to commercialize nontoxic, organic herbicide his lab discovered.

• **Asha Rao** named Presidential Professor of Teaching Excellence (1 of 2)

• **Joe Sorg** selected for Chancellor’s EDGES

• **Andy Tag** receives Provost APT Teaching Excellence Award
Texas A&M Chemistry

• Karen Wooley elected to the National Academy of Sciences
• James Batteas leads NSF-funded Center for Chemical Innovation
• David Powers, Quentin Michaudel received NIH MIRAs
• Holly Gaede received Provost APT Teaching Excellence Award
• Larry Brown received University Professor of Undergraduate Teaching Excellence
• Cody Folden received 2020 Association of Former Students Distinguished Achievement University-Level
• Jonathan Sczepanski received the 2020-21 Montague Center for Teaching Excellence Award
Texas A&M Mathematics

- **Edriss Titi** selected as University Distinguished Professor
- **Ken Dykema, Matthew Papanikolas** selected as Fellows, American Mathematical Society (AMS)
- **Yalchin Efendiev** selected as Fellow, Society for Industrial and Applied Mathematics (SIAM)
- **Rostislav Grigorchuk** received 2020 Humboldt Research Award
- Math Learning Center opened Spring 2020; **Paulo Lima-Filho** Director
- **Anne Shiu** led successful 8-week summer REU program
- **Heather Ramsey** received John J Koldus III Faculty and Staff Achievement Award
Texas A&M Physics & Astronomy

- Alexei Sokolov awarded Willis E. Lamb Award for contributions to Laser Science and Quantum Optics and Chancellor’s EDGES fellowship
- Bhaskar Dutta named American Physics Society Fellow for contributions to particle physics phenomenology
- High energy group received 3 DoE grants to study collider physics, dark matter searches, and high energy theory.
- Ralf Rapp named University Professor
- Alexei Sokolov (research), George Welch (teaching) receive Distinguished Achievement Awards
- Sherree Kessler received Presidents Meritorious Staff Award
Texas A&M Statistics

- Brani Vidakovic, Program Director in DMS at NSF and Professor at Georgia Tech, named Department Head of Statistics
- Brani Vidakovic named inaugural recipient of H.O. Hartley Chair in Statistics
- Alyssa Brigham received President’s Award for Academic Advising for 2020
- Math and CLSC co-sponsored first international Datathon featuring 2,000 applicants from 130 university and 95 different majors
- Kathy Ensor, TAMU Alumni (Joe Newton’s student), elected President of the American Statistical Association
### College of Science Rankings

- Rankings: USNWR Global Universities & Graduate School Rankings:

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<td>Planned Gifts Booked</td>
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<td>Architecture</td>
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<tr>
<td>Business</td>
<td>$14,586,190.76</td>
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<tr>
<td>Education</td>
<td>$1,571,976.75</td>
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<tr>
<td>Engineering Pgm**</td>
<td>$22,882,866.22</td>
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<tr>
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<tr>
<td>Nursing</td>
<td>$296,389.71</td>
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<td>TAMU Galveston</td>
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<td>12th Man</td>
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<td>Undesignated at TAMF</td>
<td>$15,010,574.29</td>
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<td>Totals</td>
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### Development Analysis

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<td>Agriculture</td>
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## Campaign Unit Report
**07/01/2019 through 06/30/2020**

Gifts, Pledges, Matching Gifts, Gifts in Kind, Grants and Planned Gifts

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<th>Current Gifts</th>
<th>Planned Gifts</th>
<th>Private Gifts for Research</th>
<th>Totals</th>
<th>Campaign Total Goal</th>
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<td>$470,653,884.45</td>
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* Includes College Of Agriculture, Texas AgriLife Extension and Texas AgriLife Research, Texas Forest Service, and Vet Diagnostics Lab

** Includes College of Engineering, TEES and TTI
Campaign Summary
06/30/20

$4,079,286,886.26
Endowments

Scholarships

Clearfield Family Scholarship for Science Leadership Scholars in Chemistry
Established in May 2019 by Dr. Abraham Clearfield, Norman Clearfield, and Dr. Howard Clearfield to support full-time students pursuing undergraduate degrees in chemistry and participating in the Science Leadership Scholars Program.

Debra L. ’79 and Michael D. Dishberger ’79 Scholarship for Science Leadership Scholars
Established in November 2019 by Mr. Michael Dishberger ’79 and Mrs. Debra Dishberger ’79 to support full-time students pursuing undergraduate degrees in the College of Science and participating in the Science Leadership Scholars Program.

Alejandro and Nicole Gonzalez- Raymond Martin Gutierrez and Melba P. Gutierrez Charitable Trust Scholarship for Science Leadership Scholars
Established in July 2019 by Dr. Dagoberto Gonzalez, Jr. ’92 and Mrs. Patricia Gonzalez ‘92 to support full-time students pursuing undergraduate degrees in the College of Science and participating in the Science Leadership Scholars Program.
Dr. Matthew A. ’82 and Patricia J. Harthcock Scholarship for Science Leadership Scholars
Established in February 2020 by Dr. Matthew Harthcock ’82 and Mrs. Patricia Harthcock to support full-time students pursuing undergraduate degrees in chemistry and participating in the Science Leadership Scholars Program.

Richard and Agnes Hrncir aggieTEACH Scholarship
Established in August 2019 by Agnes Hrncir and Catherine? to support full-time students pursuing undergraduate degrees in the College of Science and enrolled in the aggieTEACH program.

Killough Family Chemistry Scholarship
Established in January 2020 by Dr. James “Mike” Killough ’75 and Mrs. Gabrielle “Gigi” Killough ’78 to support full-time students pursuing undergraduate or graduate degrees in chemistry.
Endowments

Ahmed M. Mahmoud '87 Scholarship for Science Leadership Scholars
Established in September 2019 by Ahmed Mahmoud ‘87 to support full-time students pursuing undergraduate degrees in the College of Science and participating in the Science Leadership Scholars Program.

Charlotte and John McMath '66 Scholarship
Established in August 2019 by Dr. John McMath '66 and Mrs. Charlotte McMath to support full-time students pursuing undergraduate degrees in mathematics from the College of Science, with preference for members of the Corp of Cadets.

Patrick D. Moller '80 Endowed Memorial Scholarship
Established in July 2019 by Suzanne Moller '80 in memory of her late husband to support full-time students pursuing Bachelor of Science degrees in chemistry from the College of Science.
**Endowments**

**Dina and Dr. Tyler Pendergrass ’94 Scholarship for Science Leadership Scholars**

Established in July 2019 by Dr. Tyler Pendergrass ’94 and Mrs. Dina Pendergrass to support full-time students pursuing undergraduate degrees in the College of Science and participating in the Science Leadership Scholars Program.

**Marci and Dr. Joel Richter ’71 Scholarship in the Howard L. Gravett Scholars Program**

Established in March 2020 by Dr. Joel Richter ’71 and Mrs. Marci Richter to support full-time students pursuing undergraduate degrees in Biology and who are pre-med and participating in the Science Leadership Scholars Program.

**Sandi Smith Undergraduate Scholarship in Physics and Astronomy**

Established in February 2020 by the Department of Physics & Astronomy in memory of Sandi Smith to support full-time students pursuing undergraduate degrees in the Department of Physics & Astronomy.

**Jo Ann and Dr. Charles H. Whiteside ’53 Endowed Scholarship in Chemistry**

Established in July 2019 by Dr. Charles Whiteside ‘53 and Mrs. Jo Ann Whiteside to support full-time students pursuing undergraduate degrees in Chemistry.
Endowments

Fellowships

Professor Manuel P. Soriaga Graduate Fellowship
Established in December 2019 by Dr. Elizabeth Soriaga in memory of her late husband to support full-time students pursuing graduate degrees in chemistry from the College of Science.

Joel Zinn Endowed Memorial Graduate Fellowship in Mathematics
Established in July 2019 by Michele Zinn '87 in memory of her late husband to support full-time students pursuing a Ph.D. from the Department of Mathematics in the College of Science.
Endowments

Awards

Dr. Phyllis Toback Mechanics Scholar Award
Established in July 2019 by Dr. David Toback and Mrs. Katherine Toback ‘88 to provide three awards in both the fall and spring semesters for a total of six awards annually to students who achieve the three highest scores each semester on the PHYS 206 Mechanics Challenge Exam.

Chairs

H. O. Hartley Chair in Statistics
Established in July 2019 by Dr. Ersen Arseven ‘74 and Dr. William B. Smith ’60 in honor of Dr. Hartley to support the teaching, research, service and professional development activities of an esteemed faculty member in the Department of Statistics.

Wesley Jay Thompson Chair in Neurobiology
Established in March 2019 by the late Dr. Wes Thompson to establish a Chair in neurobiology in the Biology Department.
### SLS Financial Breakdown

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<tr>
<th>Target Endowment</th>
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<td>Current Commitments</td>
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### Pass Through Funding Needs

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Special Thanks
Pass-Through Gifts

• John Calhoun
• Jim Adams
• John Beckerdite
• Gina Dickerson
• Mike Dishberger
• Alyssa Fenoglio

• Bill Howell
• Ahmed Mahmoud
• Emil Straube
• Rick Villarreal
• Gabriel Wilson
• Ron Wilson
Special Thanks
Corporate Partners

General Motors
bp
BP
Current Development Priorities

• Undergraduate Research Initiatives

• Science Now Campaign
  • *Endowed Faculty Support*
  • *Capital Projects – Recruit Faculty*

• Science Leadership Scholars

• Planned Giving Opportunities
Coronavirus Aid, Relief, and Economic Security (CARES)

- For those who itemize:
  - CASH Contributions deducted up to 100% of AGI
    - 60% previously
    - If you are in a position to give over 100% of AGI, can be carried over for 5 years

- For those on standard deduction:
  - Up to $300 deduction even if you don’t itemize
The Texas A&M Foundation builds a brighter future for Texas A&M University, one relationship at a time. We aspire to be among the most trusted philanthropies in higher education.
Biology SOAR & Strategic Plan Progress

Mark Zoran
2019 SOAR Analysis and Report

SOAR Summit
January 2019

Report Submitted
May 2019

Presented to President & Provost
Summer 2019
Biology Research Plan Recommendations

RECOMMENDATION 1: Develop a specific research plan focused on 5 select areas of cutting-edge biological science research identified during the SOAR, where strength exists and preeminence can be achieved.

Area Selection Based on:

- Current strengths in related research areas
- Future research opportunities with targeted investment
- Likelihood for life science collaboration with TAMU partners, industry, and governmental agencies
- Faculty aspirations for national & global impacts
Biology Research Initiative One

Mechanisms of Biological Timing

Major strength in circadian rhythms, with emerging developmental strengths.

Research opportunities linked to sleep disorders, obesity, diabetes, mental health, cardiovascular disease and cancer, in collaboration with researchers in medicine, engineering, and agriculture.

Departmental aspiration to take a significant leadership role in biological clocks and timing, informing treatments for a broad range of diseases and disorders.
Biology Research Plan Recommendations

RECOMMENDATION 2: Undertake significant hiring of biological science research faculty at both the junior and senior levels, including star hires in Biology and participating TAMU life science units.

Hiring in 2019-20:
- hired neuroscientist Isabella Farhy
- hired evolutionary biologist Courtney Fitzpatrick

Biological Timing Initiative
- first research area focus hiring
- 2 junior hires in 2020-21
- 1 senior hire once identified

Head Successor to Dr. Tom McKnight
- External search

THANKS TOM!
Biology Research Plan Recommendations

RECOMMENDATION 4: Construct a new Biological Sciences Research Building housing Biology researchers associated facilities critical for the success of research plan.

Building Programing Committee
Initiated, May 2020
Delivery of POR, October 2020

Allows recruitment and retention of the best biologists
Promotes meaningful, societal impacts in biology
Facilitates collaborative science research and discovery
Creates the hub of TAMU life science scholarship and training
Conveys a sense of Biology’s professional home and identity
Places TAMU biological sciences on display to inspire future life scientists
Biology Research Plan Recommendations

Virtual Life Science Building Tours

University of Washington
Life Sciences Complex

University of Michigan
Biological Sciences Building

University of Arizona - Bioscience Research Laboratories
Biology Research Building Location

Butler Hall
Heldenfels
Commons
Library
Acad.

Biological Sciences East
Biology Research Building Program

Budget = $120M
Gross Square Feet = 144,828
Assignable Square Feet = 72,414
Efficiency Factor = 50%
Biology Research Plan Recommendations

Junior & Senior Faculty = 24

Research Space (Total = ~33,000 asf)
  Lab Modules
  & Procedure Rooms = 1000 asf / PI

Shared Equipment Space = 7,000 asf

Office Space (Total = ~9,000 asf)
  PI Office = 120 asf / PI
  Lab Personnel Space = 250 asf / PI
Biology Research Plan Recommendations

Support Spaces (Total = 14,900 asf)
- Computation/Conference
- Meeting/Huddle Spaces = 10,500 asf

Building Support/Administration
- Commons/Café = 4,400 asf
Biology Research Plan Recommendations

Core Facility Space = 1,500 asf
Vivarium Space = 13,600 asf
Science NOW Campaign

Valen Johnson (vejohnson@tamu.edu), Randy Lunsford (rlunsford@txamfoundation.com), Karen Wooley (wooley@chem.tamu.edu), Mark Zoran (Zoran@science.tamu.edu)
Scientific Accomplishments and Future Needs are Well Established
Impacting Every Aspect of Basic Human Needs and Luxuries of Modern Life

TAMU IS A LAND-, SEA- AND SPACE-GRANT INSTITUTION
Science **NOW** Campaign

**Science NOW** - will strengthen our collective ability to respond to the needs of tomorrow in scientific knowledge, to innovate in sustainable energy and food, to support human health, recovery and intervention, and to promote a resilient earth - its natural resources, its physical environment and the life that inhabits it.
A Few TAMU Scientific Achievements

Rebuilding The Injured Spinal Cord

Jennifer Dulin's laboratory focuses on stem cell therapy for replace nerve cells lost to injury.

Roche Pays $1.4 B To Get Lung Drug

Richard Gomer directs research leading to the discovery of potential therapeutic for fibrosing diseases.
A Few TAMU Scientific Achievements

Solving Plastic Problem with Biopolymers

Karen Wooley’s research defines how organic material is turned into plastic substitutes.

Working On Drugs To Treat COVID-19

Wenshe Liu’s laboratory refocused to research drugs to combat the coronavirus pandemic.
A Few TAMU Scientific Achievements

**Improvements in Brain Cancer Therapy**

*Deborah Bell-Pedersen’s* research demonstrates that the biological clock benefits treatments for cancers, such as glioblastoma.

**Identifying Genes That Cause Melanoma**

*Gil Rosenthal’s* multi-institution team identified the genetic cause of skin cancer in fish, leading to possible human cancer therapies.
A Few TAMU Scientific Achievements

Materials For Brain-Like Computing

Sarbajit Banerjee’s discovery of highly tunable materials emulates neuron function.

Radiation Effects and Space Exploration

Sherry Yennello leads the Cyclotron Institute, where researchers tested electronics of Space X spacecrafts.
SOAR Strategic Planning Outcomes

Biology SOAR & Strategic Plan 2019

Chemistry SOAR & Strategic Plan 2020

Shared Research Goals

With Great Societal Impact

The Periodic Table of Life
The Periodic Table of Life

Chemistry of Life and the Sustainable Planet
The Periodic Table of Life

Biological Synthesis, Resilience and Evolution
The *limiting reagent* of a reaction is the reactant that determines how much product can be made.
Research Faculty: Need for Targeted Increase in Academy

Decade of Decline in Science Research Faculty Number, But Increase in Funding per Faculty Member

Over the decade, instructional faculty (APT) numbers in Science have also declined

14% Decrease in 10 Years

~$40M external research funding (~$145k/faculty)

~$40M external research funding (~$170k/faculty)
Student Growth: Opportunity (and Obligation) for Advanced Learning

Decade of Growth in Texas A&M Enrollment (UG & GR)

TAMU Enrollment (in Thousands)

Year

41% Increase in 10 Years

Over the decade, enrollment in Science majors has increased 29%
Student Growth Provides Opportunity (and Obligation) to Enhance the Infrastructure for Advanced Learning by Cutting Edge Research Experiences

**OPPORTUNITY FOR GROWTH, WHILE ALSO AN OBLIGATION TO OUR STUDENTS**

- Recruit
- Educate
- Train
- Inspire
- Prepare for Global Societal Impact

**TAMU Quality, Value and Impact TO BE ENHANCED BY TAMU SCIENCE NOW CAMPAIGN**

- Internationally-recognized Leading Faculty Scholars
- Outstanding Graduate Student Researchers and Teachers
- Undergraduate Scholars, Who Contribute to Scientific Discoveries
- State-of-the-Art Facilities

Any College or University

Outstanding Research I and AAU Universities
The College of Science Provides a Central Foundation with Extensive Connections to Colleges of Other Disciplines
Urgent Need for R&D Investments to Maintain U.S. Excellence and Regain Global Dominance

China Closes the Gap in R&D Expenditure

China’s R&D expenditure is closing the gap with the United States, and projections show it will surpass the U.S. by 2019. This trend is significant and warrants attention.

Source: OECD Science, Technology and Industry Outlook 2014 - © OECD
College of Science strategic planning alignment with the priorities guiding TAMU’s Decade of Excellence Strategic Plan

**Science Now** - Endowed Research Faculty Lines

**ENGAGE** Texas and beyond to enhance our impact

**Science Now** - State-of-the-Art Research Collaborative Facilities

**STRENGTHEN** and harness our research enterprise

**Science Now** - Endowed Graduate Researcher/Teacher Scholarships

**ELEVATE** graduate and professional education

**Science Now** - Endowed Undergraduate Young Investigators

**ENHANCE** transformational education and student success
What are your thoughts and ideas?
We’re eager to hear them.